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2.7

a) Comments are used to document a program and improve its readability

b) A decision can be made in a java program with an if statement.

c) Calculations are normally performed by assignment t statements.

d) The arithmetic operators with the same precedence as multiplication are / and %.

e) When parentheses in an arithmetic expression are nested, the innermost set of parenthesis is evaluated first.

f) A location in the computer's memory that may contain different values at various times throughout the execution of a program is called a variable.

2.8

a) Display the message "Enter an integer: ", leaving the cursor on the same line.

System.out.print( "Enter an integer: " );

b) Assign the product of variables b and c to variable a.

a = b + c;

c) Use a comment to state that a program performs a sample payroll calculation.

//Performs a sample payroll calculation.

2.9

a) Java operators are evaluated from left to right.

False. Some operators evaluate from right to left

b) The following are all valid variable names: \_under\_bar\_, m928134, t5, j7, her\_sales$,

his\_$account\_total, a, b$, c, z and z2.

True.

c) A valid Java arithmetic expression with no parentheses is evaluated from left to right.

False. It’s evaluated according to the operator’s precedence

d) The following are all invalid variable names: 3g, 87, 67h2, h22 and 2h.

False. The variable h22 is acceptable because it begins with a letter.

2.11

a) Which of the following Java statements contain variables whose values are modified?

a) p = i + j + k + 7;

b) System.out.println( "variables whose values are destroyed" );

c) System.out.println( "a = 5" );

d) value = input.nextInt();

“A” and “D”

2.14

public class DisplayingNumbers

{

public static void main( String[] args )

{

System.out.println( "1 2 3 4" );

System.out.print( "1 " );

System.out.print( "2 " );

System.out.print( "3 " );

System.out.print( "4\n" );

System.out.printf( "%d %d %d %d\n", 1, 2, 3, 4 );

} // end main method

} // end class